



**AIRONN**

“FAN ENGINEERING”

**12.000.000 m<sup>2</sup>  
Hospital**

**Hi-Tech  
Production Facility**

**10.000 m<sup>2</sup> Covered  
Production Area**

**480 km Tunnel  
Ventilation**

**More than 1,000 different  
types of projects**

**22.000.000 m<sup>2</sup>  
Carpark Ventilation**

**FAN ENGINEERING**

**115 Metro Station**

**More Than 1.000.000 m<sup>2</sup>  
Damper**

**Annual 30.000 Fan  
Production Capacity**

**Export to 39 Countries**

**218 Different Fan Types**

**ENGINEERING**



## Fan World's Trusted Partner for System Design Solutions

Aironn, a Turkish engineering company, has been manufacturing ventilation solutions since 2011. Their focus on combining global technology standards with cost efficiency has led them to become a leading manufacturer in the sector. By prioritizing R&D as a universal culture, Aironn has built a strong team and is known for creating unique solutions. In

addition to fire, smoke, and pressurization fans, jet fans, subway and tunnel fans, Aironn's product line includes axial fans, EC fans, shelter ventilation fans, roof and duct type fans, and bathroom fans. Aironn's expertise in fan engineering has also allowed them to expand their production planning to other ventilation system solutions.



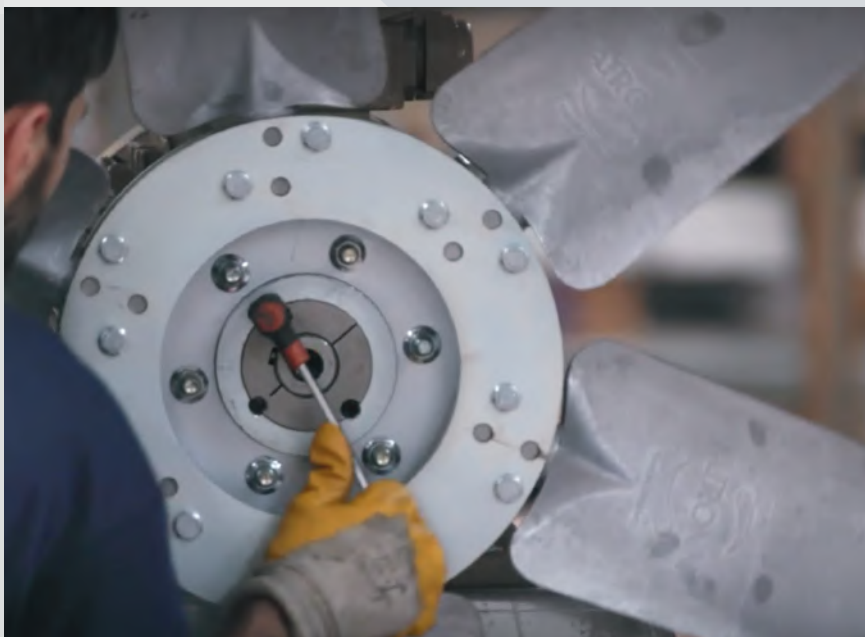
Aironn's production facilities are located in Izmit Kartepe and encompass a 10,000 m<sup>2</sup> closed area. The facility boasts an impressive equipment park that consists solely of CNC machines. This state-of-the-art equipment, which can be accessed remotely, enables Aironn to achieve high-precision sheet metal cutting in different sizes. This technology allows Aironn to meet the diverse needs of all kinds of projects while ensuring high-quality production in all details.

With an annual production capacity of over 30,000 devices, Aironn's Production Facility is well-equipped to meet the demands of its customers.

Aironn's Fan Test Facility thoroughly tests and labels every device that is produced, ensuring the highest standards of quality and reliability.

The Aironn Fan Training Center, located in the Aironn Production Facility, offers periodic or on-demand training seminars.







VALUE ENGINEERING

**System Solutions**

## System Solutions

# Car Park Ventilation Systemst



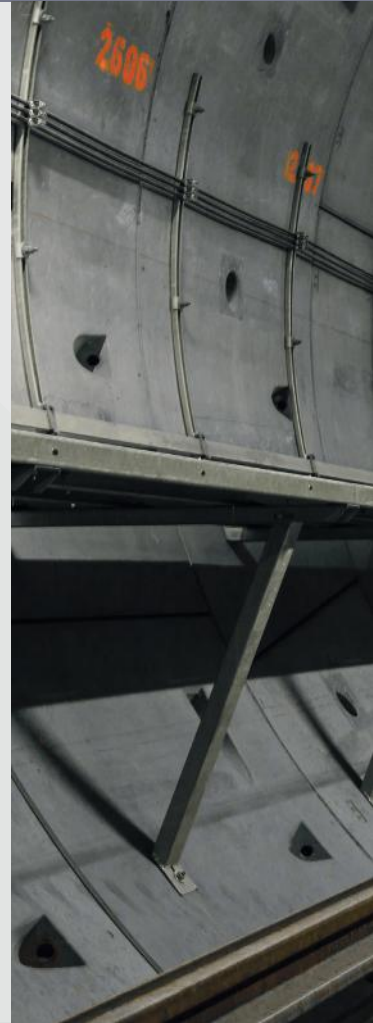
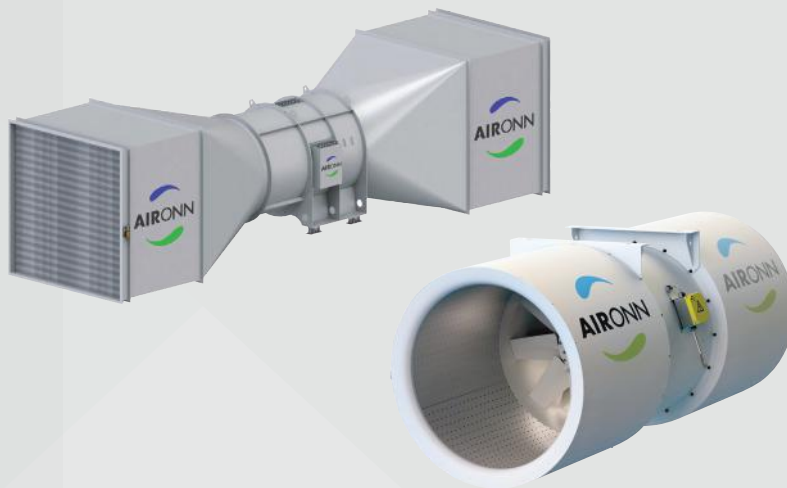
As technology advances and demands increase, jet fan smoke control systems are replacing ducted systems for smoke evacuation in car park ventilation. These systems not only control smoke but also prioritize the speed of smoke evacuation. They are designed to confine smoke to a specific area in case of fire and to create conditions that enable people to escape safely. Furthermore, these systems ensure that firefighters can reach the fire point in appropriate conditions.





## System Solutions

# Tunnel and Subway Ventilation Systems



AIRONN IS  
A MEMBER OF PIARC



To ensure the safe use of tunnels, daily and emergency ventilation systems are installed to meet international standards. These systems are used to remove toxic exhaust gases from vehicles during daily ventilation, and in the event of a fire, to evacuate smoke and hot air. With this system, people inside the tunnel can safely escape to emergency escape tubes while exposure to toxic gas is minimized, vision distances are protected, and panic is avoided.





## System Solutions

# Staircase and Lift Pressurization Systems



Pressurization systems are installed to prevent smoke from entering fire escape staircases and elevators, and to provide safe evacuation for people to a smoke-free environment, as well as a safe access route for firefighters. According to the regulations on fire protection of buildings, pressurized fire stairs are required for all non-residential buildings where the height of the staircase exceeds 30.5 meters. For residential buildings, this requirement applies to heights exceeding 51.50 meters.









## System Solutions

# Shopping Malls, Hospitals, and Mixed used Living Area Ventilation Systems



An atrium is a vertical space between two or more stories in a building, surrounded by enclosed areas of use. With modern building design, the atrium has become more popular, and the need for smoke exhaust systems in atria has increased to ensure people's safety in the event of a fire. Smoke can be naturally or mechanically extracted from atriums, and effective smoke exhaust systems are essential for creating a safe and healthy indoor environment.





## System Solutions

# Laboratory Fans



Aironn RF exhaust systems are particularly favored in laboratories, hospitals, and factories where polluted air is generated. These systems dilute the polluted air before discharging it into the atmosphere, effectively minimizing unpleasant odors. Additionally, their long-lasting design and color options, which can be customized to blend with the building's appearance, make them an attractive option. Their low noise levels and broad flow range, which can be controlled with by-pass dampers, make it easy to meet the high flow requirements. The exhaust systems can be used individually or in groups of two, three, four, or six. The air regulators placed in front of the snail fans contribute to the superior productivity of these specialized designs.







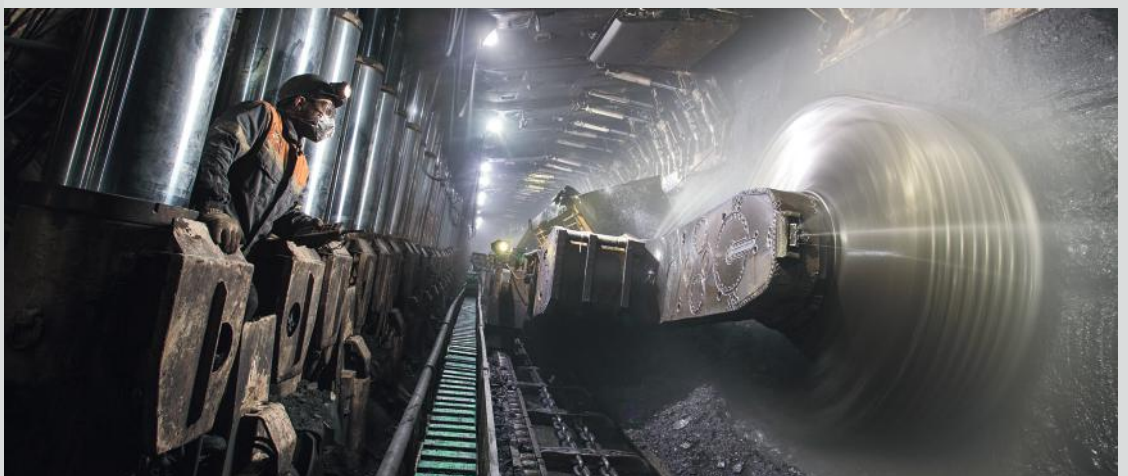
## System Solutions

# Mine Ventilation Systems

A mine ventilation system is an essential component of underground mining operations. It provides fresh air to underground workings and removes harmful gases, dust, and heat generated by mining activities. The system includes ventilation fans, ductwork, and air distribution devices such as stoppings and air doors. The design of a mine ventilation system depends on factors such as the size and layout of the mine, the type of mining method used, the depth of the mine, and the types of contaminants present. Proper ventilation not only provides a safe working environment but also improves working conditions for miners and can increase productivity by reducing the risk of accidents and heat stress. Effective ventilation planning and management are crucial to ensure the safety and health of workers in underground mining operations.







## SOFTWARE

### Licensed Software



**SOLVENT**

**SES**

**FDS**

**CEMENT**

### The Software Developed by AIRONN R&D Group



Fan Selection Software



The Atrium smoke exhaust calculations are designed by AIRONN R&D Group



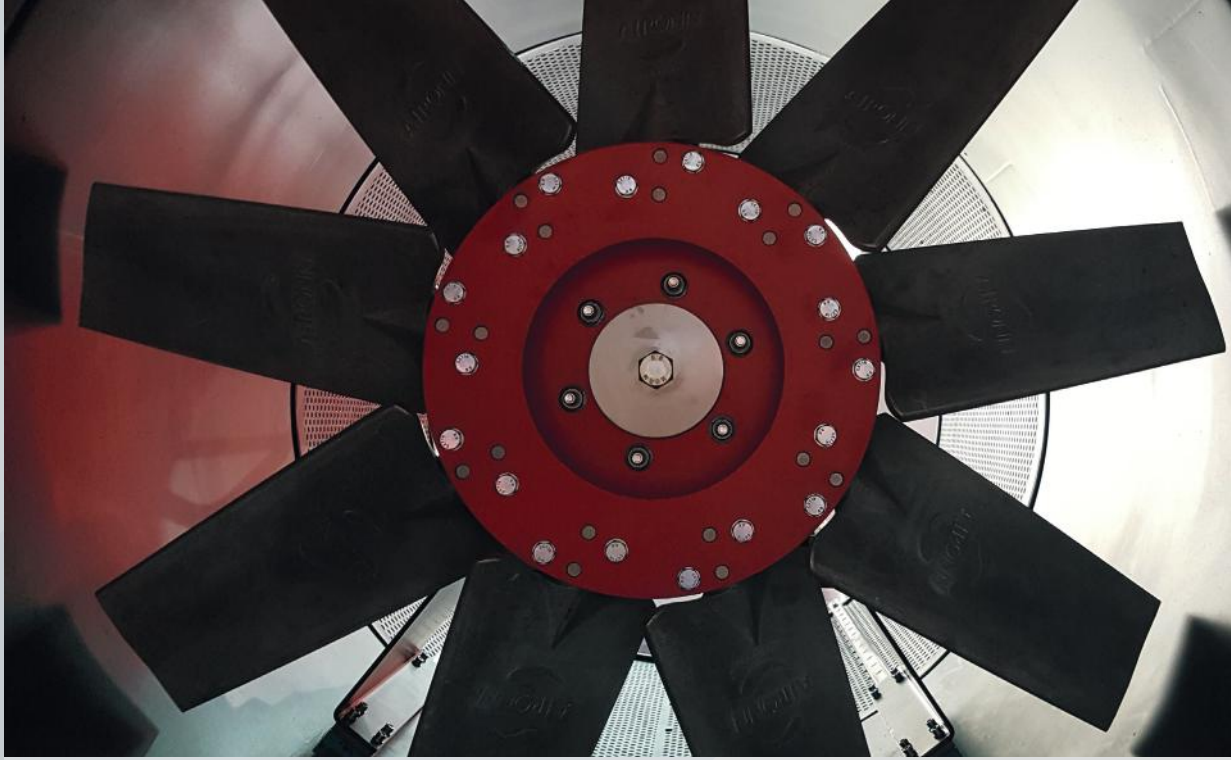
Software for stair pressurization calculations



Tunnel Analysis Program  
Tunnel Analysis program was designed by Aironn R&D team for one-dimensional tunnel ventilation calculations.



It is a calculation tool developed by Aironn R&D team to make necessary ventilation calculations during tunnel excavation.



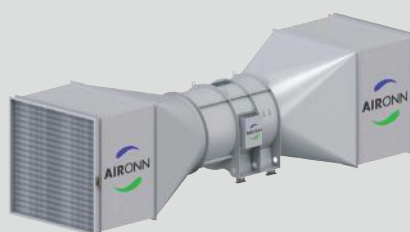
# PRODUCTS

## PRODUCTS

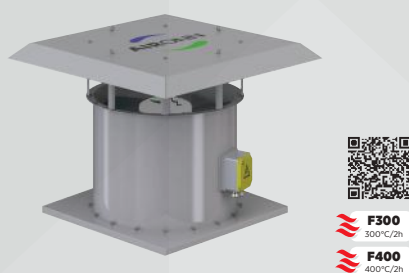
# Axial Fans



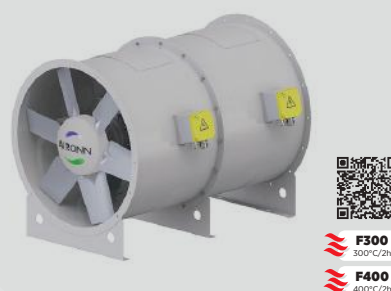
AXIAL FRESH AIR AND  
EXHAUST FANS



TUNNEL AND SUBWAY  
VENTILATION FANS



ROOF TYPE AXIAL FRESH AIR AND  
EXHAUST FANS



SERIES TYPE AXIAL FANS FOR FRESH AIR AND  
EXHAUST FANS



CELL TYPE AXIAL FRESH AIR AND  
EXHAUST FANS



AXIAL HATCH FRESH AIR  
AND EXHAUST FANS



# Radial Fans Jetfans



**F300**  
300°C/2h  
**F400**  
400°C/2h

AXIAL TYPE UNILATERAL AND  
BILATERAL JET FANS



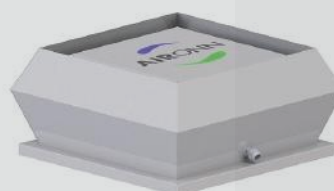
**F300**  
300°C/2h  
**F400**  
400°C/2h

RADIAL JET FANS



**F300**  
300°C/2h  
**F400**  
400°C/2h

TUNNEL FANS



ROOF TYPE EC FANS



DUCT TYPE RADIAL FANS



**F300**  
300°C/2h  
**F400**  
400°C/2h

AXIAL TYPE SILENCER BODY SMOKE EXHAUST  
AND FRESH AIR FANS



## PRODUCTS

# Dampers

### CERTIFICATED SMOKE CONTROL DAMPERS



Smoke dampers serve a specific purpose, which is to obstruct smoke from entering a building. Their motors allow them to close automatically in the event of a fire, following a predetermined scenario. There are two primary ways in which smoke dampers can be applied: the first is by installing them onto the duct to prevent smoke from advancing through it, and the second is by mounting them on the wall to contain the smoke within a specific area. Additionally, smoke dampers can also work as pressure regulators during non-fire conditions. The Aironn ADS-2020-1 smoke dampers are EN 1366-10 certified and are utilized to prevent smoke from spreading from the HVAC system into undesired areas.

### MOTORIZED SHAFT DAMPERS



Motorized shaft dampers are used to prevent unwanted air movement in the same compartment of ducts connected to the system when one of the fans is not operating. These dampers are automatically operated by motors. The ADA-2020-2-1 motorized shaft dampers are used to adjust the air flow rate passing through the system and to prevent air passage when the system is not in operation, thanks to the electric motor on them.

# Dampers

## MOTORIZED NON-RETURN DAMPER



“Motorized non-return dampers are used in the system to prevent the undesirable movement of air when one of the fans connected to the same space in the ducts is not working. These dampers are automatically operated by motors. The ADA-2020-2-2 motorized non-return dampers are used to adjust the air flow passing through the system with the help of the electric motor and to prevent the passage of air to the system when it is not operating.”

## NON-MOTORIZED NON-RETURN DAMPERS



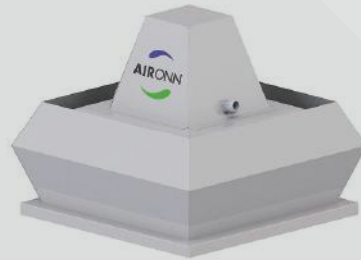
“ADA-2020-3 gravity and non-return dampers are designed to prevent air passage through the system by automatically opening when a pressure difference occurs on the system, and closing when the pressure difference disappears. These dampers are used to prevent air passage through the system when the fan is not operating.”

## PRODUCTS

# Other Product Groups



BACKWARD INCLINED RECTANGULAR  
DUCT TYPE FANS



EXTERNALLY DRIVEN VERTICAL DISCHARGE  
RADIAL ROOF-TYPE FANS



SILENCER



CELL TYPE ASPIRATOR



ROOF TYPE FANS



WALL TYPE FANS

## PATENTED PRODUCTS



 **F300**  
300°C/2h

 **F400**  
400°C/2h

TWIN SPINDLE AXIAL FAN FOR FRESH AIR AND  
EXHAUST



 **F300**  
300°C/2h

 **F400**  
400°C/2h

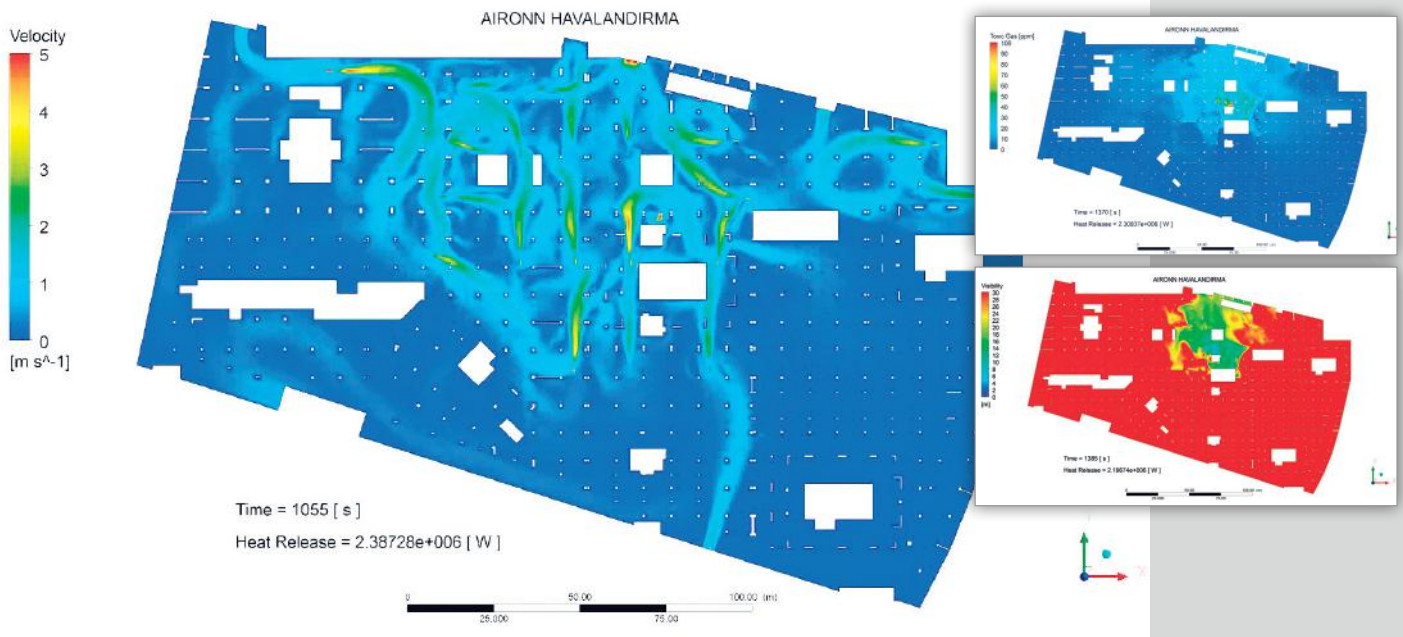
AXIAL TYPE SILENCER BODY FANS FOR  
FRESH AIR AND EXHAUST



SLIDING TUNNEL FAN

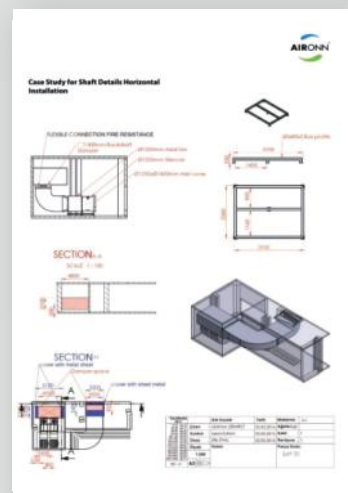
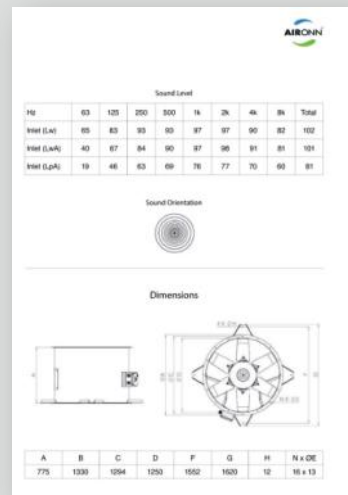
## CFD ANALYSIS

# Life is safer with CFD Analysis...



Thanks to CFD codes, the actual behavior and real interaction of AIRONN branded axial smoke exhaust and jet fans with the entire environment in evacuating smoke during indoor fires can be numerically solved. Thus, Aironn is able to provide its customers with an objective answer regarding the placement and capacities of axial and jet fans.





# CERTIFICATES

Applus<sup>®</sup>

**CERTIFICATE**

No. **0370-CPR-3131**

**CERTIFICATE OF CONSTANCY OF PERFORMANCE**

In compliance with Regulation (EU) No. 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product:

**SMOKE AND HEAT CONTROL SYSTEMS. VENTILATORS (FANS).**  
RANGE: AXIAL FAN AIR-A-U F400

Placed on the market under the name of:

**AIRONN Havalandirma Sanayi Anonim Şirketi**  
KARATEPE MAH. CUMHURİYET CADESSİ MERA SOK. No. 13  
KARTEPE / KOCATEPE (TURKEY)

And produced in the manufacturing plant:

KARATEPE MAH. CUMHURİYET CADESSİ MERA SOK. No. 13  
KARTEPE / KOCATEPE (TURKEY)

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

**EN 12101-3:2015**

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product.

This certificate was first issued on 2<sup>nd</sup> November 2018 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body. It is confirmed on 1<sup>st</sup> February 2022.

The monitoring assessment will be done before 30<sup>th</sup> November 2022

Beltserra, 11<sup>th</sup> February 2022

Applus<sup>®</sup>  
L360 Technological Center, S.A.  
Xavier Ruiz Peña  
Managing Director, Product Conformity S.U.

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**SMOKE AND HEAT CONTROL SYSTEMS. VENTILATORS (FANS).**  
RANGE: AXIAL FAN AIR-A-U F300

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**SMOKE AND HEAT CONTROL SYSTEMS. VENTILATORS (FANS).**  
RANGE: JET FAN AIR-3-U F400

Placed on the market under the name of:

**AIRONN Havalandirma Sanayi Anonim Şirketi**  
KARATEPE MAH. CUMHURİYET CADESSİ MERA SOK. No. 13  
KARTEPE / KOCATEPE (TURKEY)

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**EN 12101-3:2015**

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Carrer 4.002 - Planta de la part del Centre  
46100 Sagunto (Valencia)  
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RANGE: JET FAN AIR-3-U F300

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**EN 12101-3:2015**

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Carrer 4.002 - Planta de la part del Centre  
46100 Sagunto (Valencia)  
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**SMOKE AND HEAT CONTROL SYSTEMS, VENTILATORS (FANS).**  
RANGE: RADIAL JET FAN AIR-13-F 400

Placed on the market under the name of:

**AIRONN Havalandirma Sanayi Anonim Şirketi**  
KARATEPE MAH. CUMHURİYET CADDESİ MERA SOK. No. 13  
KARTEPE / KOCAELİ (TURKEY)

And produced in the manufacturing plant:

KARATEPE MAH. CUMHURİYET CADDESİ MERA SOK. No. 13  
KARTEPE / KOCAELİ (TURKEY)

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Carrer 4.002 - Planta de la part del Centre  
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**SMOKE AND HEAT CONTROL SYSTEMS, VENTILATORS (FANS).**  
RANGE: TUNNEL JET FAN AIR-3-F 400

Placed on the market under the name of:

**AIRONN Havalandirma Sanayi Anonim Şirketi**  
KARATEPE MAH. CUMHURİYET CADDESİ MERA SOK. No. 13  
KARTEPE / KOCAELİ (TURKEY)

And produced in the manufacturing plant:

KARATEPE MAH. CUMHURİYET CADDESİ MERA SOK. No. 13  
KARTEPE / KOCAELİ (TURKEY)

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

**EN 12101-3:2015**

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Belatona, 11th February 2022

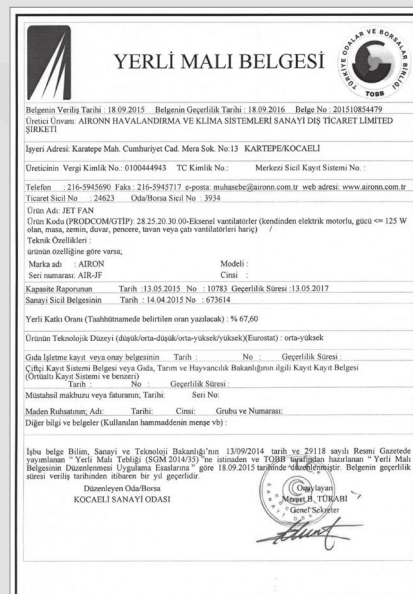
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# CERTIFICATES

2022-03-14 : تاريخ الشهادة  
AM 7:02 : وقت الشهادة  
PAC22000778 : رقم الطلب

وزارة الداخلية  
الدائرة العامة للدفاع المدني  
ادارة الوقاية

نوع الشهادة : اعتماد منتج  
معلومات المنتج :  
اسم المنتج : شركة الصناعات النجارية  
رقم العمل التجاري : 8191  
رقم قيد المصنعة : 10-0327-00  
المرجع الإلكتروني :  
التصنيف : Smoke and Heat Control Ventilation Systems  
اسم المنتج : Powered Smoke and Heat Control Ventilators / Pressurization Fans & Components  
ملاحظات المنتج :  
تم مراجعة طلب اعتماد المنتج والتحقق من صحة المنتج المعتمد في التصديق الفني المرفق بعد على اعتماد من قبل اللجنة المختصة في التصديق الفني المرفق.

2024-03-12 : تاريخ الاعتماد : 2022-05-13 : تاريخ الانتهاء

Page 1 of 2

2022-05-12 : تاريخ الشهادة  
PM 12:39 : وقت الشهادة  
PAC22000606 : رقم الطلب

وزارة الداخلية  
الدائرة العامة للدفاع المدني  
ادارة الوقاية

نوع الشهادة : اعتماد منتج  
معلومات المنتج :  
اسم المنتج : شركة الصناعات النجارية  
رقم العمل التجاري : 8191  
رقم قيد المصنعة : 10-0327-00  
المرجع الإلكتروني :  
التصنيف : Smoke and Heat Control Ventilation Systems  
اسم المنتج : Powered Smoke and Heat Control Ventilators / Pressurization Fans & Components  
ملاحظات المنتج :  
تم مراجعة طلب اعتماد المنتج والتحقق من صحة المنتج المعتمد في التصديق الفني المرفق بعد على اعتماد من قبل اللجنة المختصة في التصديق الفني المرفق.

2024-05-11 : تاريخ الاعتماد : 2022-05-12 : تاريخ الانتهاء

Page 1 of 2

دولة الكويت  
قوة الإطفاء العام

اتحاد جديد

الجهة المستفيدة : شركة الدفاع للتعلم والمطالعة  
الجهة الممولة : اتحاد مزارع سبب الدفاع صنع الشركة التركية (AIRONN HAVALANDIRMA)  
الجهة الممولة : اتحاد مزارع سبب الدفاع صنع الشركة التركية (AIRONN HAVALANDIRMA)  
تاريخ الإصدار : 2022/05/11  
تاريخ الانتهاء : 2024/05/11

بيانات الأداء

NO.	FAN MODEL	FAN BLADE (mm)	BLADE ANGLE (DEGREE)	AIR QUANTITY (CFM)	STATIC PRESSURE (IN.WG)	MOTOR POWER (KW)	EFFICIENCY (%)
1	AIR-A-1	400	8-11	1010-109	8-12	2.2 (3)	63-64
2	AIR-A-2	450	8-11	1412-1471	8-12	3 (4)	61-62
3	AIR-A-3	500	8-11	1814-1873	8-12	3.7 (5)	60-61
4	AIR-A-4	550	8-11	2216-2275	8-12	4.5 (6)	59-60
5	AIR-A-5	600	8-11	2618-2677	8-12	5.5 (7)	58-59
6	AIR-A-6	650	8-11	3020-3079	8-12	6.5 (8)	57-58
7	AIR-A-7	700	8-11	3422-3481	8-12	7.5 (9)	56-57
8	AIR-A-8	750	8-11	3824-3883	8-12	8.5 (10)	55-56
9	AIR-A-9	800	8-11	4226-4285	8-12	9.5 (11)	54-55
10	AIR-A-10	850	8-11	4628-4687	8-12	10.5 (12)	53-54
11	AIR-A-11	900	8-11	5030-5089	8-12	11.5 (13)	52-53
12	AIR-A-12	950	8-11	5432-5491	8-12	12.5 (14)	51-52

Motor Details  
Motor Manufacturer : T300 (LEBOY SOMER)  
Location of motor : Inside the cabinet  
Insulation Class : F  
Degree of Protection : IP55  
Fire Protection Resistance : 300°C / 60 Minutes  
Phase - Voltage - Frequency : 3 Ph. 400 V. 50 Hz  
Thermal Protection Use : No Thermal Protection Use

Page 1 of 2

Kingdom of Bahrain  
Ministry of Interior

3/17/2021/64/13409

Protection and Safety Directorate  
Dated: 17th March 2020

Dear Sir,

**IMPORT AND TRADE PERMIT OF HEAT AND SMOKE EXHAUST VENTILATORS (FANS)**

Thank you for your submitted dated 07 January 2020, enclosing product catalogue, technical details and international approvals for the Heat and Smoke Exhaust Ventilators (Fans) manufactured by M&S AIRONN, TURKEY.

As the above product/system is tested and certified by the following certification bodies:

S/N	Product	Model	Certification body	Certificate number	Issued date
1	ANUL FAN AIR-A-UF300	ANUL FAN AIR-A-UF300	Applus (Spain)	0370-CPB-3132	02.11.2018
2	Powered Smoke and Heat Exhaust Ventilators (Fans)	ANUL FAN AIR-A-UF400	Applus (Spain)	0370-CPB-3134	02.11.2018
3	Ventilators (Fans)	ANUL FAN AIR-A-UF400	Applus (Spain)	0370-CPB-3131	02.11.2018
4	Ventilators (Fans)	ANUL FAN AIR-A-UF400	Applus (Spain)	0370-CPB-3133	02.11.2018
5	RADIAL JET FAN AIR-JF F400	RADIAL JET FAN AIR-JF F400	Applus (Spain)	0370-CPB-3135	02.11.2018

Therefore, the General Directorate of Civil Defence has NO OBJECTION to import and trade the above mentioned Heat and Smoke Exhaust Ventilators (Fans) within the Kingdom of Bahrain.

This certificate is valid until 17th March 2021.

For Colonel (Staff)  
Director Protection & Safety Directorate  
General Directorate of Civil Defence  
Capt. (Eng.) Mohamed Ahmed Alkhar

Page 1 of 1

Ministry of the Interior, P.O. Box 11, Kingdom of Bahrain, Tel: 17234000, Fax: 17234001, Email: info@aironn.com

**CERTIFICATE**

**AIRONN HAVALANDIRMA SANAYİ ANONİM ŞİRKETİ**

KARATEPE MAH. MERA SOK. NO:13  
KARATEPE / KOCAELİ / TÜRKİYE

Has been assessed and found to Comply with the Requirements of:  
Dönüşümü ve uyguladığı standartlar gerekliliklerine uygunluğu doğrultusunda:

**ISO 9001:2015**

The Quality Management System is applicable to:  
Kalite Yönetim Sistemi:

MANUFACTURING OF AIR CONDITIONER AND VENTILATION DEVICES  
İKLİMLENDİRME VE HAVALANDIRMA CİHAZLARININ İMALATI

Certificate Number: QMS-8102088  
Belge Numarası: QMS-8102088

Certification Period: 3 Years  
Belgeleme Periyodu: 3 Yıl

Initial Certification Date: 05.01.2023  
İlk Belgeleme Tarihi: 05.01.2023

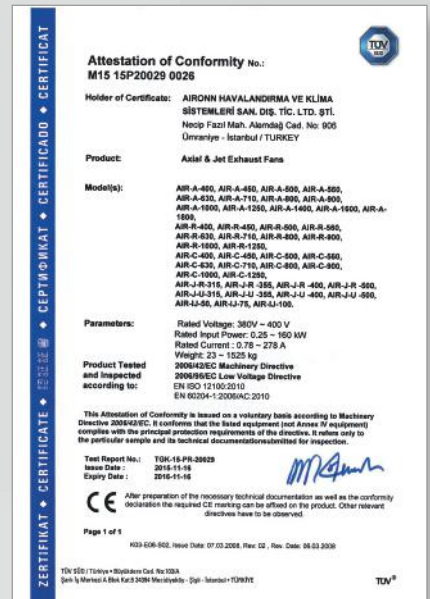
Certificate Validity Date: 04.01.2025  
Belge Geçerlilik Tarihi: 04.01.2025

QOR (Quality Observer Group)

QOR

IAS  
ACCREDITED  
International Standard  
ISO 9001:2015

QOR ULUSLARARASI BELGELENDİRME HİZMETLERİ LTD.ŞTİ.  
Belgeleme ve Kontrol Hizmetleri Ltd. Şti. (QOR) T.C. Mersis: 36.0000.0000.0000.0000.0000  
Tel: +90 (262) 400 00 00 / Faks: +90 (262) 400 00 00 / E-posta: info@qor.com.tr / qor.com.tr





## LABORATORIES

The R&D center,  
which also includes a  
testing laboratory that  
complies with AMCA  
standards

**Jet fan performance testing laboratory that  
complies with AMCA 250-12**







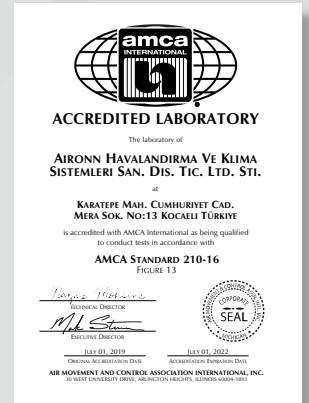
Fan test laboratory that complies  
with AMCA standards



TÜV-SÜD  
Approved



The first and the unique  
fan performance testing  
laboratory in Turkey and  
the wider region to have  
AMCA accreditation



High-temperature fan testing  
laboratory compliant with EN 12101-3



## PUBLICATIONS





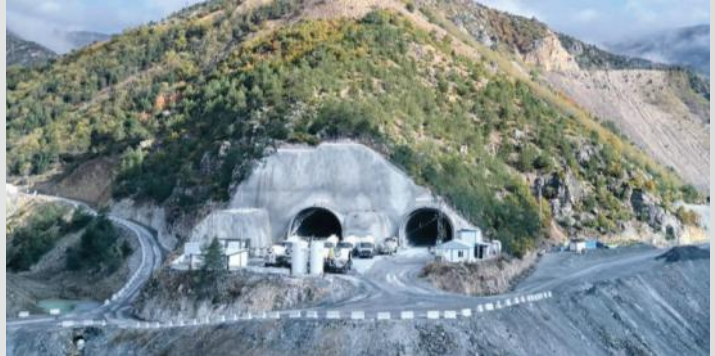
## REFERENCES



## REFERENCES

### **ZİGANA TUNNEL**

The World 2nd Longest Tunnel (16 km)



### **OVİT TUNNEL**

The World 3rd Longest Tunnel (15 km)



### **İSTANBUL AIRPORT UNDER APRON TUNNELS**



### **NORTH MARMARA HIGHWAY TUNNELS**





### BOZTEPE AND ÖCELİ TUNNELS



### SABUNCUBELİ TUNNELS



### SALANG TUNNEL



### SABİHA GÖKÇEN TEM TUNNEL



## REFERENCES

### İKİZDERE TUNNELS



### FERHAT TUNNELS



### ÇAKRAZ TUNNELS



### AKYAZI TUNNELS



### **KAHRAMANMARAŞ TUNNELS**



### **BURUNCUK TUNNELS**



### **TOPÇAM TUNNELS**



### **SALAHADDIN TUNNELS**





## REFERENCES

### SABIHA GÖKÇEN AIRPORT METRO STATION



### BAŞAKŞEHİR-KAYAŞEHİR METRO STATIONS



### GEBZE-DARLICA METRO STATIONS



### 4th PHASE OF İZMİR METRO SYSTEM





**BİLKENT HEALTH CAMPUS**



**KONYA MEVLANA CITY HOSPITAL**



**BAŞAKŞEHİR PINE AND SAKURA CITY HOSPITAL**



**KOCAELİ INTEGRATED HEALTH CAMPUS**



## REFERENCES

**ELAZIĞ CITY HOSPITAL**



**ESKİŞEHİR CITY CENTRAL HOSPITAL**



**İZMİR BAYRAKLI  
INTEGRATED HEALTH CAMPUS**



**BURSA CITY HOSPITAL**





## İSTANBUL FINANCE CENTER



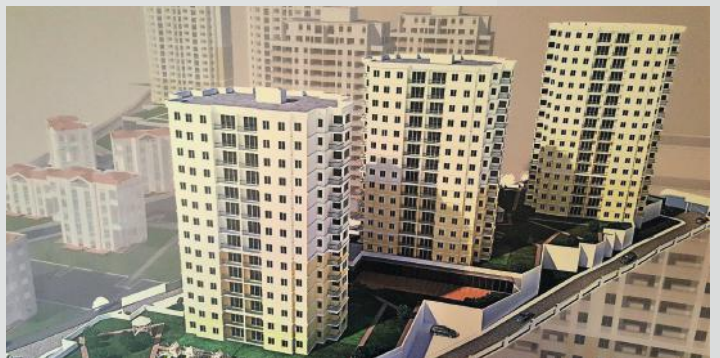
## MASLAK 1453



## SURYAPI LAVENDER



## MAVI ISTANBUL RESIDENCES



## REFERENCES

### EMPERIA DRAGOS HOUSES



### TEMA İSTANBUL



### ÇAMLICA MOSQUE



### TAKSİM MOSQUE







**ATATÜRK CULTURAL CENTER**



**ANTALYA STADIUM**



**TRIBECA CENTRAL MAURITIUS**



**RAY RESIDENCE  
KAZAKHSTAN**



## REFERENCES

### AVENUE 5 KAZAKHISTAN



### CROCUS CITY KAZAKHISTAN



### ARTYOM SHOPPING CENTER KAZAKHSTAN



### ORYX FACTORY QATAR





AIRONN HAVALANDIRMA SAN. A.Ş.  
Çamlık Mah. Şenol Güneş Bulvarı No: 28A Ümraniye - İstanbul / Turkey  
Tel: +90 216 594 56 96 Fax: +90 216 594 57 17 E-mail: info@aironn.com.tr



[www.aironn.com.tr](http://www.aironn.com.tr)